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紫堇属高紫堇组新分类群

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NEW TAXA OF THE GENUS CORYDALIS SECT. ELATAE

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关键词 紫堇属；高紫堇组；新分类群
Key words *Corydalis*; Sect. *Elatae*; New taxa

泾源紫堇 新种 图1

Corydalis jingyuanensis C. Y. Wu et H. Chuang, sp. nov.

Species C. *quantmeyeriana* Fedde affinis, sed inflorescentiis pallide pubescentibus, petalis externis cristatis, crista circ. 3 mm alta, foliis triternatisectis differt.

Herba robusta, 25—40 cm alta. Radices numerosae lineares, fibrosae; rhizoma brevius, reliquiis vaginatis foliorum marcidorum minus obtectum. Caulis 1—3, erectus simplex foliafns. Folia basalia plurima, petiolis 2—7 cm longis basi vaginatis, laminis ambitu late ovatis 1.5—5.5 cm longis, triternatisectis, segmentis primariis stipitatis, secundariis brevissimis, tertiariis sessilibus 2—5-partitis, lobulis acutis supra viridibus, subter glaucis; caulina circ. 3, distantia alternantia, ambitu et sectione simillima, sed sensim minora, petiolis infernis circ. 6 cm longis, superis ad 1 cm longis. Racemi terminales circ. 10 cm longi, sub fructibus producti, pedunculis pedicellisque pallide pubescentibus, 12—18-flori; bracteae infernae palmatipartitae, lobulis sursum sensim deminutis, summae lanceolatae dentatae; pedicelli robusti, longiores quam bracteis, interdum inferni breviores. Flores violacei; sepala aquamiformia, subtriangula margine lacera vel suborbiculata integra; petalum superius 3—3.3 cm longum, limbo apice acuminato, margine

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profunde recurvo, crista circ 3 mm alta, apicem limbi superante usque medio evadente, calcari cylindrico, longiore quam limbo, e medio declinato; petalum inferius 1.4—1.6 cm longum, petalo superiore similis, medio constrictum, basi scrotiformis; petala interiora 1.2—1.3 cm longa, limbis obovato-oblongis, sacculis lateralibus, unguibus anguste cuneatis, leviter longioribus; stamina 1—1.1 cm longa, antheris minimis, filamentis elliptico-lanceolatis, appendice 2/5 calcaris perducte; ovarium ellipticum 0.7—0.9 cm longum, ovulis numerosis, stylo 0.3—0.4 cm longo, stigmate didymo ovato, 10-tuberculato. Capsula elliptica vel anguste obovato-elliptica, 1.3—1.5 cm longa, ad apicem pedicelli decurvata. Semina plurima, suborbiculata, 1—1.5 mm diam. nigra nitida.

宁夏(Ningxia)：泾源(Jinyuan)，杜庆（C. Tu）76-0060（模式！存西北高原生物所，Typus! NWBI），宁夏中草药组（Ningxia-Yao.Exp.）2－0045。生于海拔2100—2500米的林下草地。

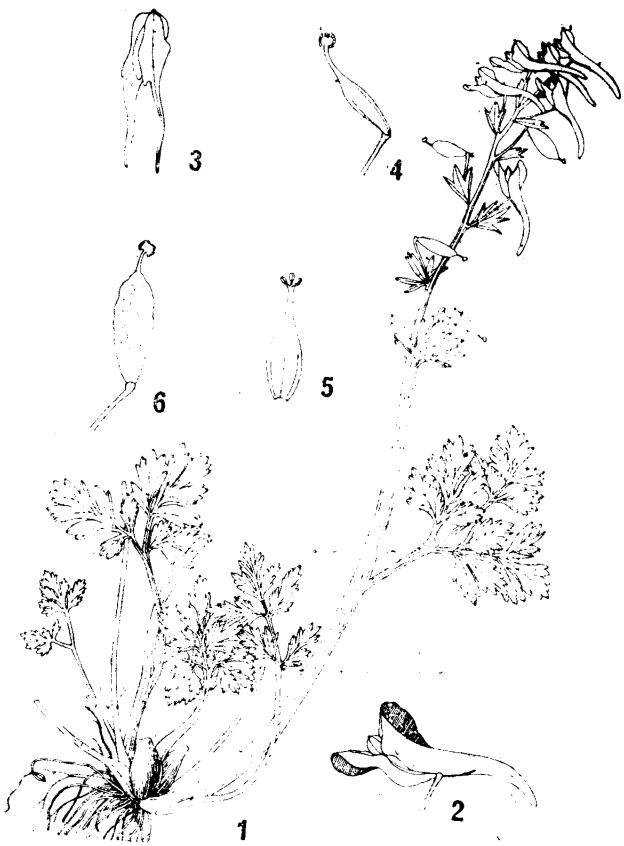

图1 泾源紫堇 *Corydalis jingyuanensis* C. Y. Wu et H. Chuang

1.植株；2.花外形；3.内花瓣；4.雌蕊；5.雄蕊；6.果。（吴锡麟绘）

本种近黄龙紫堇（*C. quantmeyeriana* Fedde），但本种花序被淡色微柔毛，外花瓣具高约3毫米的鸡冠状突起，叶三回分裂。

三囊紫堇 新种

Corydalis trigibbosa H. Chuang, sp. nov.

Corydalis heterocentra auct. non Diels: "图鉴补编" 1：685，图8738.1982.

Species similis *C. heterocentrae* Diels, sed foliis tripinnatisectis, lobulis, angustiorbus, caulinis petiolis, basi in vaginas latas dilatatis; racemis 2—3 cm longis, 3—6-floris, petalis superioribus margine edentatis, inferioribus trisaccatis differt.

Herba glabra, 20—40 cm alta. Radix brevis, lateralis aliqua ad 10 cm longa

vel longiora, 1—2 mm crassa, fibrosa numerosa; rhizoma robustum breve, ad collum reliqiis vaginis foliorum marcidorum obtectum. Caulis 3—7, saepe simplex vel pauciramosus. Folia basalia numerosa, petiolis 4—9 cm longis, basi in vaginas dilatatis, laminis ambitu ovatis, 3—6 cm longis, tripinnatisectis, segmentis primariis 2—3-jugis, suboppositis, petiolulatis, secundariis subsessilibus vel sessilibus, 2—3-jugis, alternis, 3—7-pinnatilobatis, lobulis anguste oblongis, acutis; caulina aliquot distantia alternantia, petiolis omnino basi in vaginas latas dilatatis, cetera foliis basalibus similibus. Racemi terminales 2—3 cm longi, sub fructus ad 10 cm elongati, 3—6-flori; bracteae infernae foliis caulinis superioribus conformes, sursum sensim deminutae, summae oblonceolatae 3-lobatae vel raro integrae; pedicelli bracteis longiores. Sepala squamiformia suborbiculata lacerodentata; petala purpurea vel roseola, superius 2.3—2.5 cm longa, limbo naviculiformi-ovato, apice mucronato, dorso crista humili brevioreque, calcari cylindrico, leviter limbo longiore; petalum inferius 1—1.3 cm longum, late naviculiformi-ovatum, apice mucronatum, crista conformi, medio constrictum inferne saccatum, basi sacculo ornatum; petala interiora pandurata, 0.9—1.2 cm longa, limbis ovato-oblongis, sacculis lateralibus, unguibus anguste cuneatis paullo longioribus; stamina 0.8—1 cm longa, antheris minimis, filamentis lanceolatis, appendice 1/2 calcaris perducente; ovarium anguste ellipticum, 0.5—0.6 cm longum, stylo circ. 0.3 cm longo, stigmate didymo ovato, 8—10-tuberculato. Capsula elliptica vel anguste obovata, 1.5—1.8 cm longa, ad apicem pedicelli decurvata. Semina numerosa suborbiculata 1.5—2 mm diam., nigra nitida.

云南 (Yunnan)：维西 (Weixi)，冯国楣 (K. M. Feng) 3527 (模式! 存昆明植物所，Typus! KUN)，4052；丽江 (Lijiang)，俞德浚 (T. T. Yü) 11037，秦仁昌 (R. C. Ching) 30051；中甸 (Zhongdian)，冯国楣957；德钦 (Deqen)，俞德浚 69132。生于海拔2500—3400米的林下、草坡、沟边或路旁。

本种近*C. heterocentra* Diels，但本种叶三回羽状细裂，茎生叶均具柄，基部扩成宽鞘；总状花序长2—3厘米，有3—6花，上花瓣边缘无齿，下花瓣具3个囊状突起。

粗颈紫堇　新变种

Corydalis schusteriana Fedde var. **crassirhizomata** C. Y. Wu, var. nov.

A var. *schusterianae* differt petalis externis ecristatis, calcari limbo subaequilongo; inflorescentiis circ. 3 cm longis, paucifloris, satis densis; capsulis anguste ellipticis circ. 1.3 cm longis.

四川 (Sichuan)：冕宁县(Mianning Xian)，武素功 (S. K. Wu) 2281 (模式! 存昆明植物所，Typus! KUN)。生于海拔3500米左右的山沟水边。

与原变种的区别是外花瓣无鸡冠状突起，距与花瓣片近等长；花序长约3厘米，少花，密集；蒴果狭椭圆形，长约1.3厘米。

狭花紫堇 新种 图2

Corydalis angustiflora C. Y. Wu, sp. nov.

Proxima *C. schusterianae* Fedde, a qua differt foliis ambitu longe ovatis, tripinnatilobatis; petalis externis ecristatis, calcari limbo aequilongo vel leviter longiore, appendice breviore.

Herba glabra, usque ad 90 cm alta. Radices numerosae lineares; rhizoma ad collum reliquiis vaginatis foliorum marcidorum incrassatis obtectum. Caulis superne pauciramosus foliatusque, inferne nudus. Folia basalia plurima, petiolis 15—23 cm longis vaginatis, cetera foliis caulinis similibus; caulina circ. 3, alternantia distantia, petiolis 3—4 cm longis, laminis ambitu longo-ovatis 6—13 cm longis, tripinnatilobatis, segmentis primariis 2—3-jugis suboppostis, ambitu ovatis, infernis stipitatis supernis sessilibus, secundariis sessilibus, pinnatis, lobulis anguste oblanceolatis vel anguste oblongis, apice rotundatis vel obtusis, mucronatis, perspicue nervatis. Racemi terminale laxe multiflori, 7—11 cm longi; bracteae infimae obovatae vel ellipticae 2—3-fidae, ceterum lineari-lanceolatae vel subulatae integrae; pedicelli graciles, filamentosi, bracteis longiores. Sepala cordato-orbiculata, inciso-dentata; petalum caeruleo-purpuratum, angustum, superius 2.3—2.8 cm longum, limbo cymbiformi-subrhombeo, apice acuminato, sub medio protuberante, dorso ecristato, calcari cylindrico, paullo declinato, infime orbiculato, limbo aequilongiore vel paulo longiore; petalum inferius 1.4—1.6 cm longum, limbo elliptico, apice obtuso, dorso ecristato, ungue gladiato, longiore quam limbo; petala interiora 1.4—1.6 cm longa, limbis obovato-oblongis, medio sacculis lateralibus, basi 2 auriculatis, unguibus linearibus, paulo longioribus; stamina 1.1—1.2 cm longa, antheris minimis, oblongis, filamentis lineari-lanceolatis, appendice 3/5 calcaris perducente; ovarium lineare 0.7—0.9 cm longum, ovulis uniseriatis, stylo circ. 0.4 cm longo, stigmate didymo ovato, 10-papillato.

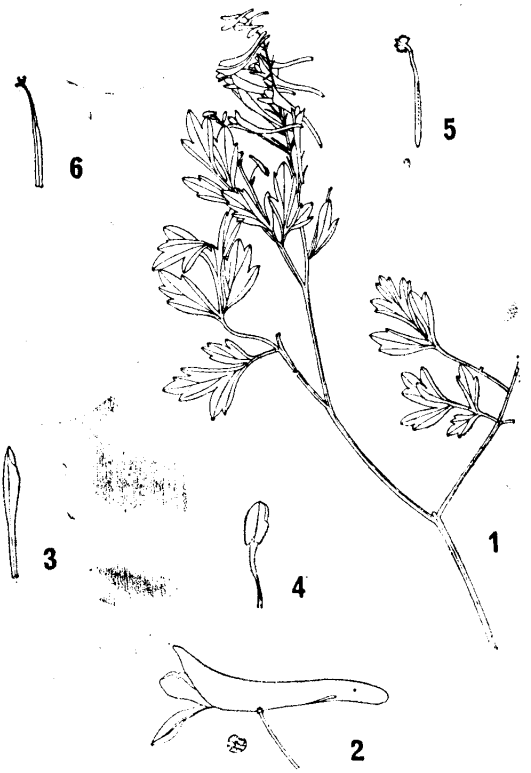

图2 狭花紫堇 *Corydalis angustiflora* C. Y. Wu

1.植株上部；2.花外形；3.下花瓣；4.内花瓣；5.雌蕊；6.雄蕊。（吴锡麟绘）

四川 (Sichuan)：马边 (Mabian)，汪发缵 (F. T. Wang) 23067（模式！存昆

明植物所，Typus! KUN），赵子孝（T. S. Chao）236。生海拔2000—2200米的混交林下。

本种近甘洛紫堇（*C. schusteriana* Fedde），但本种叶片轮廓长圆形，三回羽状分裂；外花瓣无鸡冠状突起，距与花瓣片近等长或稍长，密腺体较短。

粉叶紫堇　新种　图3

Corydalis leucanthema C. Y. Wu, sp. nov.

Haec species differt a sectionibus floribus albis, petalis superioribus ca. 1.7—1.9 cm longis, ecristatis; foliis utrinque paginis pruinosis, in sicco nigrescentibus.

Herba glabra, 25—40 cm alta. Radices numerosae, circ. 1—2 mm crassae, fibrillosae; rhizoma repens, ad collum reliquiis vaginatis foliorum marcidorum obtectum. Caulis 1—2, pauciramosus. Folia basalia pauca, 17—25 cm longa, petiolis 5—15 cm longis, laminis ambitu ovatis, bipinnatilobatis, segmentis primariis longe stipitatis, secundariis breviter stipitatis, lobulis obovatis, apice rotundatis, tenuissimis, utroque paginis pruinosis, in sicco nigrescentibus, nievis dichotomis; caulina pauca, distantia alternantia, basalibus similes, sed minora. Racemi terminales, (2—) 4—7 cm longi; bracteae infimae 3-sectae, iterum 2—3-fidae, mediae oblanceolatae integrae, summae subulatae; pedicelli graciles, bracteae longiores. Sepala squamiformia suborbiculata alba, margine inaequaliter dentata; petalum album, superius 1.7—1.9 cm longum, limbo cymbiformi-ovato margine interdum repando, dorso ecristato, calcari cylindrico, infime leviter declinato, paulo longiore quam limbo; petalum inferius oblanceolatum, circ. 1 cm longum, dorso ecristato; petala interiora pandurata, circ. 1 cm longa, limbis obovatis, sacculis lateralibus, unguibus linearibus paulo longioribus; stamina circ. 0.9 cm longa, antheris minimis oblongis, filamentis

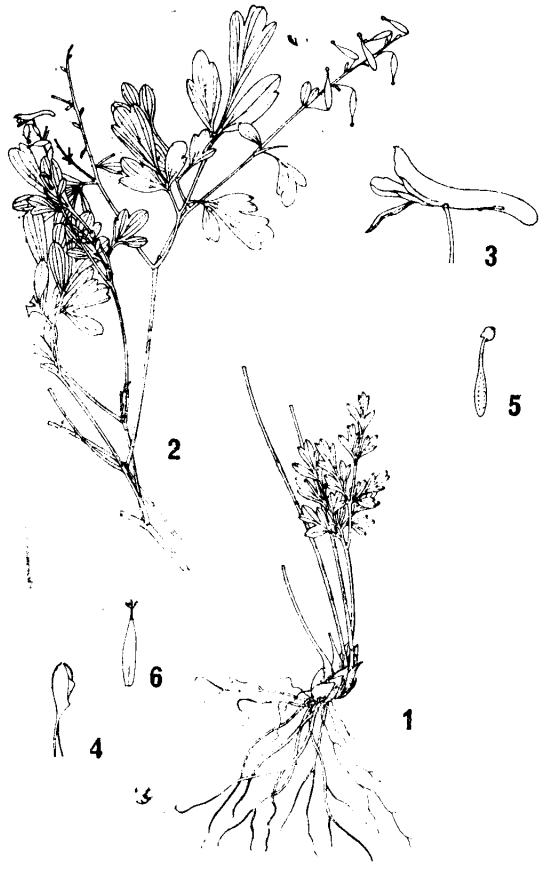

图3　粉叶紫堇*Corydalis leucanthema* C. Y. Wu
1.植株下部；2.植株上部；3.花外形；4.内花瓣；5.雌蕊；6.雄蕊。（吴锡麟绘）

lanceolatis, appendice 2/3 calcaris perducente; ovarium anguste ellipticum, circ. 0.4 cm longum, stylo subaequilongo, stigmate didymo ovato. Capsula anguste elliptica, circ. 1 cm longa. Semina subsphaerica, nigra nitida.

四川 (Sichuan)：峨眉山 (Emei Shan)，郑万钧 (W. C. Cheng) 10520，彭彩伯 (T. B. Peng) 6050，张晓白 (S. P. Chang) 315，熊济华等 (J. H. Xiong et al.) 31290，陈善墉等 (S. Y. Chen et al.) 3620 (模式！存四川中药所，Typus! SCMI)，3715，四川植物标本 (Sichuan plant specimen) 4383，4567。生于海拔 950 米附近的常绿阔叶林内石岩上。

本种花白色，上花瓣长1.7—1.9厘米，无鸡冠状突起；叶片两面具白粉，干时灰黑色，容易与其他种区别。